DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/6/2011 has been entered.

Response to Arguments

2. Claims 1 – 8, 25 – 32, and 49 – 80 are pending in this Office Action. After a further search and a thorough examination of the present application, claims 1 – 8, 25 – 32, and 49 – 80 remain rejected.

3. Applicant's arguments filed with respect to claims 1 – 8, 25 – 32, and 49 – 80 have been fully considered but they are not persuasive.

Applicant argues that there is no teaching in Dalal of a single entry comprises both the metric value and the set value, wherein at least some of the individual values are lost with the metric value and the individual values are not lost with the set value.

In response to Applicant's argument, the Examiner submits that Dalal teaches a single entry comprises both the metric value and the set value, wherein at least some of the individual values are lost with the metric value and the individual values are not lost

with the set value. In column 6 lines 32 – 47 and column 7 lines 11 – 25, figure 7 Dalal discloses a single entry comprises both the metric value and the set value, wherein at least some of the individual values are lost with the metric value and the individual values are not lost with the set value.

Remaining claims in instant application recite the same subject matter and for the same reasons as cited above the rejection is maintained. Hence, Applicant's arguments do not distinguish the claimed invention over the prior art of record. In light of the foregoing arguments, the 102 rejections are sustained.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1 – 8, 25 – 32, and 49 – 80 are rejected under 35 U.S.C. 102(b) as being anticipated by Ketan Dalal ('Dalal' herein after) (5,537,589).

With respect to claim 1,

Dalal discloses a method of aggregating a plurality of entries in a database management system into an aggregated entry in the database management system, the method comprising: making the aggregated entry in a single entry in a single table, by using a processor, the aggregated entry representing the plurality of entries and

including a first field whose value is a metric value computed from a set of individual values of a field in the plurality of entries and a second field whose value is a representation of the individual values, the metric value having the property that the individual values from which the metric value was computed cannot derived from the metric value and the representation of the individual values having the property that the individual values are derivable therefrom, so that the single entry in the single table comprises both the metric value and the set value, wherein at least some of the individual values are lost with the metric value and the individual values are not lost with the set value (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 2,

Dalal discloses the method set forth in claim 1 further comprising the step of: deleting the plurality of entries represented by the aggregated entry (figures 1, 2, 10, 11, column 9 lines 11 – 23, Dalal).

With respect to claim 3,

Dalal discloses the method set forth in claim 1 wherein: the second field's value has a size which varies with the number of the individual values (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 4,

Dalal discloses the method set forth in claim 3 wherein: The second field's value is a character string wherein the character string comprising a sequence of for each individual member of the set and separator characters separating each sequences of characters (figures 4, 6, 11, column 4 lines 1 – 20, Dalal).

With respect to claim 5,

Dalal discloses the method set forth in claim 1 wherein: the second field's value has a size which is constant regardless of the number of the individual members in the set (figures 2, 10, 12, Dalal).

With respect to claim 6,

Dalal discloses the method set forth in claim 5 wherein: the second field's value comprises a string of elements, the string of elements having an element corresponding to each potential value of the individual values that belong to the set, the presence of a particular individual value in the set being indicated by a first value of the corresponding element and the absence of the particular individual value being indicated by a second value of the corresponding element (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 7,

Dalal discloses the method set forth in claim 1 wherein: the individual values are time values (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67,

column 9 lines 11 – 23, Dalal).

With respect to claim 8,

Dalal discloses the method set forth in claim 1 wherein: the individual values are location values (figures 1, column 8 lines 63 – 67, Dalal).

With respect to claim 49,

Dalal discloses the method of aggregating a plurality of entries set forth in claim 1 wherein: the entries belonging to the plurality indicate occurrences of an event in the database management system, the occurrences being recorded by a management service in the database management system (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 50,

Dalal discloses the method of aggregating a plurality of entries set forth in claim 49 further comprising the step of: deleting the plurality of entries represented by the aggregated entry (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 51,

Dalal discloses the method of aggregating a plurality of entries set forth in claim 50 wherein: the individual values indicate times of occurrence of the event of interest

(figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 52,

Dalal discloses the method of aggregating a plurality of entries set forth in claim 50 wherein: the individual values indicate places of occurrence of the event of interest (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 25,

Dalal discloses a data storage device, characterized in that: the data storage device contains code which when executed by a processor performs aggregation of a plurality of entries in a database management system into an aggregated entry in the database management system, the method comprising the steps of: making the aggregated entry in a single entry in a single table, the aggregated entry representing the plurality of entries and including a first field whose value is a metric value computed from a set of individual values of a field in the plurality of entries and a second field whose value is a representation of the individual values the metric value having the property that the individual values from which the metric value was computed cannot derived from the metric value and the representation of the individual values having the property that the individual values are derivable therefrom so that the single entry in the single table comprises both the metric value and the set value, wherein at least some of

the individual values are lost with the metric value and the individual values are not lost with the set value (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 26,

Dalal discloses the data storage device set forth in claim 25 further characterized in that: the method further comprises the step of deleting the plurality of entries represented by the aggregated entry (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 27,

Dalal discloses the data storage device set forth in claim 25 further characterized in that: the second field's value has a size which varies with the number of the individual values (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 28,

Dalal discloses the data storage device set forth in claim 27 further characterized in that: The second field's value a character string wherein each member is represented by a sequence of characters and the sequences of characters are separated by a separator character (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 29,

Dalal discloses the data storage device set forth in claim 25 further characterized in that: the second field's value has a size which is constant regardless of the number of individual values (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 30,

Dalal discloses the data storage device set forth in claim 29 further characterized in that: the second field's value comprises a string of elements, there having an element corresponding to each potential value of the individual values that belong to the set, the presence of a particular member in the set being indicated by a first value of the corresponding element and the absence of the particular member being indicated by a second value of the corresponding element (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 31,

Dalal discloses the data storage device set forth in claim 25 further characterized in that: the individual values are time values (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 32,

Dalal discloses the data storage device set forth in claim 25 further characterized in that: the individual values are location values (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 53,

Dalal discloses the data storage device set forth in claim 25 wherein: the entries belonging to the plurality indicate occurrences of an event in the database management system, the occurrences being recorded by a management service in the database management system (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 54,

Dalal discloses the data storage device set forth in claim 53 wherein the code further comprises: instructions for deleting the plurality of entries represented by the aggregated entry (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 55,

Dalal discloses the data storage device set forth in claim 54 wherein: the individual values indicate times of occurrence Of the event of interest (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 56,

Dalal discloses the data storage device set forth in claim 54 wherein: the individual values indicate places of occurrence of the event of interest (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 57,

Dalal discloses a computer system for aggregating a plurality of entries in a database management system into an aggregated entry in the database management system, the system comprising: a processor for making the aggregated entry in a single entry in a single table, the aggregated entry representing the plurality of entries and including a first field whose value is a metric value computed from a set of individual values of a field in the plurality of entries and a second field whose set value is a representation of the set of individual values, the metric value having the property that the individual values from which the metric value was computed cannot be derived from the metric value and the representation of the individual values having the property that the individual values are derivable therefrom, so that the single entry in the single table comprises both the metric value and the set value, wherein at least some of the individual values are lost with the metric value and the individual values are not lost with the set value (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 58,

Dalal discloses the system set forth in claim 57, wherein the processor further performs the act of deleting the plurality of entries represented by the aggregated entry (figures 1, 2, 10, 11, column 9 lines 11 – 23, Dalal).

With respect to claim 59,

Dalal discloses the system set forth in claim 57, wherein: the second field's value has a size which varies with the number of the individual values (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 60,

Dalal discloses the system set forth in claim 59, wherein: the second field's value is a character string, the character string comprising a sequence of characters for each individual member of the set, and separator characters separating each sequence of characters (figures 4, 6, 11, column 4 lines 1 – 20, Dalal).

With respect to claim 61,

Dalal discloses the system set forth in claim 57, wherein: the second field's value has a size which is constant regardless of the number of the individual members in the set (figures 2, 10, 12, Dalal).

With respect to claim 62,

Dalal discloses the system set forth in claim 61, wherein: the second field's value comprises a string of elements, the string of elements having an element corresponding to each potential value of the individual values that belong to the set, the presence of a particular individual value in the set being indicated by a first value of the corresponding element and the absence of the particular individual value from the set being indicated by a second value of the corresponding element (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 63,

Dalal discloses the system set forth in claim 57, wherein: the individual values are time values (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 64,

Dalal discloses the system set forth in claim 57, wherein: the individual values are location values (figures 1, column 8 lines 63 – 67, Dalal).

With respect to claim 65,

Dalal discloses the system of aggregating a plurality of entries set forth in claim 57, wherein: the entries belonging to the plurality indicate occurrences of an event in the database management system, the occurrences being recorded by a management

service in the database management system (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 66,

Dalal discloses the system of aggregating a plurality of entries set forth in claim 65, wherein the processor further performs the act of: deleting the plurality of entries represented by the aggregated entry (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 67,

Dalal discloses the system of aggregating a plurality of entries set forth in claim 66, wherein: the individual values indicate times of occurrence of the event of interest (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 68,

Dalal discloses the system of aggregating a plurality of entries set forth in claim 66, wherein: the individual values indicate places of occurrence of the event of interest (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 69,

Dalal discloses the method of claim 1, in which the aggregated entry is a roll up entry that represents a plurality of event entries and the second field includes the individual values whose members are times of occurrences (column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 70,

Dalal discloses the method of claim 69 further comprising: deriving the members from the times of occurrences in the plurality of event entries (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, Dalal).

With respect to claim 71,

Dalal discloses the method of claim 69 further comprising: counting events represented by the plurality of event entries to obtain a total number of events and setting a representation of the number of events in the first field to the total number of events (column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 72,

Dalal discloses the method of claim 69 further comprising: making a digest from one or more fields of the roll up entry (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, Dalal).

With respect to claim 73,

Dalal discloses the data storage device of claim 25, in which the aggregated entry is a roll up entry that represents a plurality of event entries and the second field includes the individual values whose members are times of occurrences (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 74,

Dalal discloses the data storage device of claim 73 further comprising: deriving the members from the times of occurrences in the plurality of event entries (figures 1, 4, 5a-c, 10, 11, and column 9 lines 11 – 23, Dalal).

With respect to claim 75,

Dalal discloses the data storage device of claim 73 further comprising: counting events represented by the plurality of event entries to obtain a total number of events and setting a representation of the number of events in the first field to the total number of events (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, column 9 lines 11 – 23, Dalal).

With respect to claim 76,

Dalal discloses the data storage device of claim 73 further comprising: making a digest from one or more fields of the roll up entry (column 9 lines 11 – 23, Dalal).

With respect to claim 77,

Dalal discloses the system of claim 57, in which the aggregated entry is a roll up entry that represents a plurality of event entries and the second field includes the individual values whose members are times of occurrences (column 4 lines 1 – 20, column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 78,

Dalal discloses the system of claim 77, in which the processor is to derive the members from the times of occurrences in the plurality of event entries (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, Dalal).

With respect to claim 79,

Dalal discloses the system of claim 77, in which the processor is to count events represented by the plurality of event entries to obtain a total number of events and setting a representation of the number of events in the first field to the total number of events (column 8 lines 63 – 67, column 9 lines 11 – 23, Dalal).

With respect to claim 80,

Dalal discloses the system of claim 77, in which the processor is to make a digest from one or more fields of the roll up entry (figures 1, 4, 5a-c, 10, 11, column 4 lines 1 – 20, Dalal).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Navneet K. Ahluwalia whose telephone number is 571-272-5636.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alam T. Hosain can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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